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|------------------------------------------------------------------------------------------------------------------|-----------------|--------------|--|
| <b>Issue Classification</b><br> | Application No. | Applicant(s) |  |
|                                                                                                                  | 10/684,451      | KIM ET AL.   |  |
|                                                                                                                  | Examiner        | Art Unit     |  |
|                                                                                                                  | Thinh T Nguyen  | 2818         |  |

| ISSUE CLASSIFICATION                                       |   |          |   |                                                                                                        |                                   |     |  |                             |                             |
|------------------------------------------------------------|---|----------|---|--------------------------------------------------------------------------------------------------------|-----------------------------------|-----|--|-----------------------------|-----------------------------|
| ORIGINAL                                                   |   |          |   | CROSS REFERENCE(S)                                                                                     |                                   |     |  |                             |                             |
| CLASS                                                      |   | SUBCLASS |   | CLASS                                                                                                  | SUBCLASS (ONE SUBCLASS PER BLOCK) |     |  |                             |                             |
| 257                                                        |   | 510      |   | 257                                                                                                    | 510                               | 506 |  |                             |                             |
| INTERNATIONAL CLASSIFICATION                               |   |          |   |                                                                                                        |                                   |     |  |                             |                             |
| H                                                          | 0 | 1        | L | 29/00                                                                                                  |                                   |     |  |                             |                             |
|                                                            |   |          |   | /                                                                                                      |                                   |     |  |                             |                             |
|                                                            |   |          |   | /                                                                                                      |                                   |     |  |                             |                             |
|                                                            |   |          |   | /                                                                                                      |                                   |     |  |                             |                             |
|                                                            |   |          |   | /                                                                                                      |                                   |     |  |                             |                             |
| Thinh T Nguyen 7/2004<br>(Assistant Examiner) (Date)       |   |          |   | David Nelms<br>Supervisory Patent Examiner<br>Technology Center 2800<br>(Primary Examiner) (Date) 7/04 |                                   |     |  | Total Claims Allowed: 4     |                             |
| Sarah Malley 8/3/04<br>(Legal Instruments Examiner) (Date) |   |          |   |                                                                                                        |                                   |     |  | O.G.<br>Print Claim(s)<br>1 | O.G.<br>Print Fig.<br>fig 4 |

|                                                                                        |          |       |          |                              |          |       |          |                               |          |       |          |                                 |          |  |  |
|----------------------------------------------------------------------------------------|----------|-------|----------|------------------------------|----------|-------|----------|-------------------------------|----------|-------|----------|---------------------------------|----------|--|--|
| <input type="checkbox"/> Claims renumbered in the same order as presented by applicant |          |       |          | <input type="checkbox"/> CPA |          |       |          | <input type="checkbox"/> T.D. |          |       |          | <input type="checkbox"/> R.1.47 |          |  |  |
| Final                                                                                  | Original | Final | Original | Final                        | Original | Final | Original | Final                         | Original | Final | Original | Final                           | Original |  |  |
|                                                                                        | 1        |       | 31       |                              | 61       |       | 91       |                               | 121      |       | 151      |                                 | 181      |  |  |
|                                                                                        | 2        |       | 32       |                              | 62       |       | 92       |                               | 122      |       | 152      |                                 | 182      |  |  |
|                                                                                        | 3        |       | 33       |                              | 63       |       | 93       |                               | 123      |       | 153      |                                 | 183      |  |  |
|                                                                                        | 4        |       | 34       |                              | 64       |       | 94       |                               | 124      |       | 154      |                                 | 184      |  |  |
|                                                                                        | 5        |       | 35       |                              | 65       |       | 95       |                               | 125      |       | 155      |                                 | 185      |  |  |
|                                                                                        | 6        |       | 36       |                              | 66       |       | 96       |                               | 126      |       | 156      |                                 | 186      |  |  |
|                                                                                        | 7        |       | 37       |                              | 67       |       | 97       |                               | 127      |       | 157      |                                 | 187      |  |  |
| 1                                                                                      | 8        |       | 38       |                              | 68       |       | 98       |                               | 128      |       | 158      |                                 | 188      |  |  |
| 2                                                                                      | 9        |       | 39       |                              | 69       |       | 99       |                               | 129      |       | 159      |                                 | 189      |  |  |
| 3                                                                                      | 10       |       | 40       |                              | 70       |       | 100      |                               | 130      |       | 160      |                                 | 190      |  |  |
| 4                                                                                      | 11       |       | 41       |                              | 71       |       | 101      |                               | 131      |       | 161      |                                 | 191      |  |  |
|                                                                                        | 12       |       | 42       |                              | 72       |       | 102      |                               | 132      |       | 162      |                                 | 192      |  |  |
|                                                                                        | 13       |       | 43       |                              | 73       |       | 103      |                               | 133      |       | 163      |                                 | 193      |  |  |
|                                                                                        | 14       |       | 44       |                              | 74       |       | 104      |                               | 134      |       | 164      |                                 | 194      |  |  |
|                                                                                        | 15       |       | 45       |                              | 75       |       | 105      |                               | 135      |       | 165      |                                 | 195      |  |  |
|                                                                                        | 16       |       | 46       |                              | 76       |       | 106      |                               | 136      |       | 166      |                                 | 196      |  |  |
|                                                                                        | 17       |       | 47       |                              | 77       |       | 107      |                               | 137      |       | 167      |                                 | 197      |  |  |
|                                                                                        | 18       |       | 48       |                              | 78       |       | 108      |                               | 138      |       | 168      |                                 | 198      |  |  |
|                                                                                        | 19       |       | 49       |                              | 79       |       | 109      |                               | 139      |       | 169      |                                 | 199      |  |  |
|                                                                                        | 20       |       | 50       |                              | 80       |       | 110      |                               | 140      |       | 170      |                                 | 200      |  |  |
|                                                                                        | 21       |       | 51       |                              | 81       |       | 111      |                               | 141      |       | 171      |                                 | 201      |  |  |
|                                                                                        | 22       |       | 52       |                              | 82       |       | 112      |                               | 142      |       | 172      |                                 | 202      |  |  |
|                                                                                        | 23       |       | 53       |                              | 83       |       | 113      |                               | 143      |       | 173      |                                 | 203      |  |  |
|                                                                                        | 24       |       | 54       |                              | 84       |       | 114      |                               | 144      |       | 174      |                                 | 204      |  |  |
|                                                                                        | 25       |       | 55       |                              | 85       |       | 115      |                               | 145      |       | 175      |                                 | 205      |  |  |
|                                                                                        | 26       |       | 56       |                              | 86       |       | 116      |                               | 146      |       | 176      |                                 | 206      |  |  |
|                                                                                        | 27       |       | 57       |                              | 87       |       | 117      |                               | 147      |       | 177      |                                 | 207      |  |  |
|                                                                                        | 28       |       | 58       |                              | 88       |       | 118      |                               | 148      |       | 178      |                                 | 208      |  |  |
|                                                                                        | 29       |       | 59       |                              | 89       |       | 119      |                               | 149      |       | 179      |                                 | 209      |  |  |
|                                                                                        | 30       |       | 60       |                              | 90       |       | 120      |                               | 150      |       | 180      |                                 | 210      |  |  |